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August 8, 2001

VIA HAND DELIVERY

Magalie Roman Salas, Esq. Secretary Federal Communications Commission 445 12th Street, S.W., Washington, DC 20554

Re: In the Matter of Authorization and Use of Software Defined Radios, ET Docket No. 00-47

Notice of Oral and Written Ex Parte Presentation

Dear Ms. Salas:

On Monday, August 6, 2001 Ron Smith, Senior Vice President of Intel's Wireless Communications and Computing Group, and Peter Pitsch and Mike Chartier of Intel met with Commissioner Kevin Martin and Ms. Monica Desai. In general Mr. Smith restated Intel's positions contained in its comment and reply comments in the above referenced proceeding and discussed the attached presentation. Specifically, he and Mssrs. Pitsch and Chartier stated: open architectures and standard interfaces in wireless networks and devices are necessary to spur the development of data applications; Intel's Personal Internet Client Architecture will foster the development of data applications because it defines interfaces between the communication and computing blocks; the FCC should promulgate SDR rules that explicitly exclude data applications from equipment certification regulation; and this approach would permit operators to set the level of openness of their systems. Finally, in the course of this discussion Mr. Smith also stated that Intel believes the FCC should use market-based spectrum

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management techniques to substantially increase the amount of spectrum available for wireless Internet applications.

Pursuant to Section 1.1206(b) of the Commission's Rules, an original and one copy of this letter are being submitted to the Secretary's Office and a copy is being provided to each of the above referenced FCC personnel. Please inform me if any questions should arise in connection with this filing.

Respectfully submitted,

Peter K. Pitsch

cc: Commissioner Kevin Martin

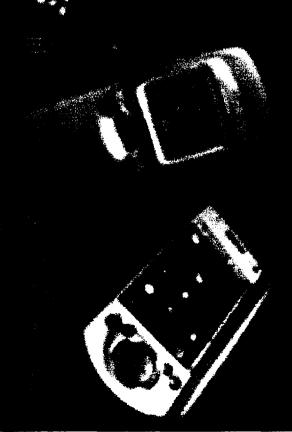
Monica Desai

Intel's Wireless Perspective

Ron Smith

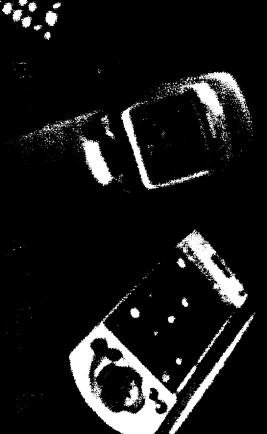
Senior Vice President and General Manager Wireless Communications and Computing Group

August 6, 2001



Agenda

Related Regulatory Issues Intel's Wireless Strategy Environment



Wireless Environment

& subscriber growth Market healthy as measured by demand metrics MOU

Consumers benefiting from dropping prices & increased competition, but.....

the Internet to wireless. Roadblocks exist to realizing true promise of bringing

DOWN WOLLOWS TO LOOS and Users, cononics, "Software Spiral"

Ingredients Critical to Enabling the Software Spiral In Wireless

1. Increasing Processing Power

2. Open Architectures & Standard Interfaces

3. Removing Bandwidth Bottlenecks

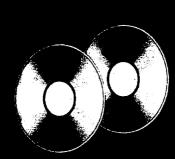


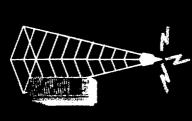


redient # 2: Open Architectures Standard Interfaces

Today's Developmen Paradigm Weans







Applications

Comm. Type Approval

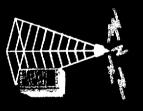
End Users

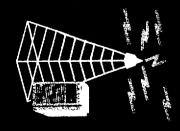


Abstraction Layers Needed to Enable New Development Paradigm

Communication



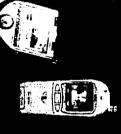




DECOUPLING NETWORK; ESTABLISH "NETWORK DEMARCATION"

Clients











DECOUPLING APPLICATIONS

Applications







Intel® Personal Internet Client Architecture-PCA

Compute



Memory

Standard Bus Interface



Communications

- An Open HW and SW platform framework.
- computing blocks. Defines the interfaces to abstract the communication and
- types. Flexible and Adaptive Architecture for multiple device Applications written to a general purpose processor in a high level language enables huge developer community.

Related Regulatory Issues: Software Defined Radio NPRM

Two Areas of Concern:

- Long-Term Promise of Spectrum Utilization.
- CTIA cited SDR in recent testimonies
- NPRM exposed the immediate need for equipment certification rules update.

intamay begin later this year. the FCC for guidance in this area Agencies in ROW are looking to important because Regulatory for their own rule makings which Proceeding is particularly

Software Defined Radio SDR

Equipment Certification Need Rules update.

- programmable devices as we know them. "Permissive change" rules never envisioned
- Currently, only original grantee can make permissive

Three Viable Solutions:

software from regulation. Intel: Specific to devices; explicitly exclude application

regime for Software era; let third parties make Class I changes Motorola: Broader approach; Updates permissive change

loaded software. NTIA: Mandate "security plan" to protect radio from user-

intel openness of their systems. Operators can still set the level of

Scarcity. Ingredient # 3: Relieving Spectrum

Spectrum scarcity—why Intel cares? Auctions as messenger

Wireless spectrum scarcity is artificial

- Only 155 MHz is wireless today
- Additional 200+ MHz needed

Greater reliance on market forces

- Fungibility
- Transferability
- •Look for "win/win" situations.

High tech looking to get more involved